

## Datasheet: MCA519GT

<b>Description:</b>	RAT ANTI MOUSE MACROPHAGES/MONOCYTES
<b>Specificity:</b>	MACROPHAGES/MONOCYTES
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MOMA-2
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	25 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			
Immunohistology - Frozen	▪			1/25
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.**

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> ).

<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml.
<b>Immunogen</b>	Mouse lymph node stroma.
<b>RRID</b>	AB_1102752
<b>Fusion Partners</b>	Spleen cells from immunized Wistar rats were fused with cells of the SP/0 myeloma cell line.
<b>Specificity</b>	<b>Rat anti Mouse Macrophages/Monocytes antibody, clone MOMA-2</b> recognizes an intracellular antigen of mouse macrophages and monocytes. It reacts strongly with macrophages in lymphoid organs such as tingible body macrophages and macrophages in T cell dependant areas and is extremely useful in immunohistochemistry. Reacts on all mouse strains tested.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Gal, A. <i>et al.</i> (1996) Nitric oxide production in SJL mice bearing the RcsX lymphoma: a model for in vivo toxicological evaluation of NO. <a href="#">Proc Natl Acad Sci U S A. 93 (21): 11499-503.</a></li> <li>Dieleman, L.A. <i>et al.</i> (1998) Chronic experimental colitis induced by dextran sulphate sodium (DSS) is characterized by Th1 and Th2 cytokines. <a href="#">Clin Exp Immunol. 114: 385-91.</a></li> <li>Fischer, M.B. <i>et al.</i> (1998) Local synthesis of C3 within the splenic lymphoid compartment can reconstitute the impaired immune response in C3-deficient mice. <a href="#">J Immunol. 160: 2619-25.</a></li> <li>Jiang, H.R. <i>et al.</i> (1999) Macrophages and dendritic cells in IRBP-induced experimental autoimmune uveoretinitis in B10RIII mice. <a href="#">Invest Ophthalmol Vis Sci. 40: 3177-85.</a></li> <li>Babaei, S. <i>et al.</i> (2000) Blockade of endothelin receptors markedly reduces atherosclerosis in LDL receptor deficient mice: role of endothelin in macrophage foam cell formation. <a href="#">Cardiovasc Res. 2000 Oct;48: 158-67.</a></li> <li>Oguchi, S. <i>et al.</i> (2000) Monoclonal antibody against vascular cell adhesion molecule-1 inhibits neointimal formation after periadventitial carotid artery injury in genetically hypercholesterolemic mice. <a href="#">Arterioscler Thromb Vasc Biol. 20: 1729-36.</a></li> <li>Kusunoki, J. <i>et al.</i> (2001) Acyl-CoA:cholesterol acyltransferase inhibition reduces atherosclerosis in apolipoprotein E-deficient mice. <a href="#">Circulation. 103: 2604-9.</a></li> <li>Lesnik, P. <i>et al.</i> (2003) Decreased atherosclerosis in CX3CR1<sup>-/-</sup> mice reveals a role for fractalkine in atherogenesis. <a href="#">J Clin Invest. 111: 333-40.</a></li> <li>Oguro, A. <i>et al.</i> (2003) NaF induces early differentiation of murine bone marrow cells along the granulocytic pathway but not the monocytic or preosteoclastic pathway <i>in vitro</i>. <a href="#">In Vitro Cell Dev Biol Anim. 39 (5-6): 243-8.</a></li> <li>Yun, J.J. <i>et al.</i> (2004) Combined blockade of the chemokine receptors CCR1 and CCR5 attenuates chronic rejection. <a href="#">Circulation. 109: 932-7.</a></li> <li>Addison, C.L. <i>et al.</i> (2004) Overexpression of the duffy antigen receptor for chemokines (DARC) by NSCLC tumor cells results in increased tumor necrosis. <a href="#">BMC Cancer. 4: 28.</a></li> <li>Nakai, Y. <i>et al.</i> (2004) Natural killer T cells accelerate atherogenesis in mice. <a href="#">Blood. 104 (7): 2051-9.</a></li> </ol>

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA519GT>  
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**Regulatory** For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>

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